

Engine &amp; Cooling

Fuel

Ignition

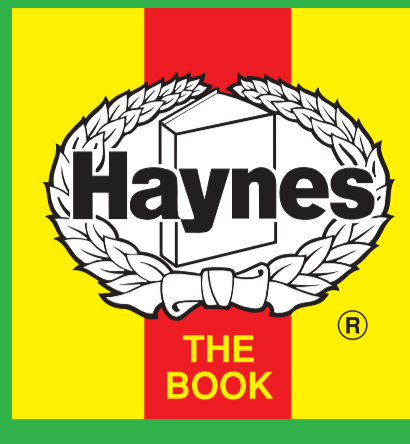
Electrical

Running gear

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Notes &amp; Illustrations



# Automotive Technical DATA BOOK

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## Engine and cooling system

V40 2.0 1996 to 1997

Type	B4204S DOHC 16V 103kW	
Capacity (cm <sup>3</sup> ) / number of cylinders	1948 / 4	
Compression ratio / pressure	bar	10.5 / 11.0 to 13.0
Oil pressure	bar	1.0 [3.5]
Oil temperature	°C	80
Valve clearance - inlet	mm	0: Hyd.
- exhaust	mm	0: Hyd.
Firing order	1-3-4-2	
No 1 cylinder position	-	
Thermostat opening temperature	°C	90
Radiator cap pressure	bar	1.20 to 1.50

## Fuel system

V40 2.0 1996 to 1997

Idle speed - manual [auto]	rpm	750 N/A
Fast idle speed - manual [auto]	rpm	-
CO @ idle speed [3000 rpm] - see page VI	%	≤0.3
HC @ idle speed [3000 rpm] - see page VI	ppm	≤200
CO <sub>2</sub> @ idle speed [3000 rpm] - see page VI	%	-
O <sub>2</sub> @ idle speed [3000 rpm] - see page VI	%	-
Carburettor / fuel injection	_Siemens Bendix	
Type / ref	Fenix 5.1 MPI	
Main jet / needle	-	
Injection pressure	bar	3.0
Pump pressure	bar	-
Octane rating	RON	95[U]

## Ignition system

V40 2.0 1996 to 1997

Type	Direct electronic	
Ignition coil	-	
Primary resistance	ohms	-
Ballast resistor	ohms	-
Voltage - Tmnl 15(+) to earth	V	-
Distributor	-	
Points gap (air gap)	mm	-
Dwell angle	° (%)	-
Condenser capacity	µF	-
Rotation	-	
Ignition timing - basic [static	° Crankshaft @ rpm	8°±3° BTDC @ 750 WSM
V = Vacuum NV = No Vacuum	-	
Total ignition advance	° Crankshaft @ rpm	Computer control
	° Crankshaft @ rpm	-
	° Crankshaft @ rpm	-
Centrifugal check.	° Crankshaft @ rpm	Computer control
	° Crankshaft @ rpm	-
	° Crankshaft @ rpm	-
Vacuum range check	mbar	Computer control
Maximum vacuum advance	° Crankshaft	-
Spark plugs	-	
Type	-	
Electrode gap	mm	-

## Electrical system

V40 2.0 1996 to 1997

Battery	V / CC / RC	12 / 62Ah
Alternator voltage / full load current / engine rpm	/ 100, 80 /	
Starter motor current / voltage - cranking	A / V	≤300 / 8.1
- locked	A / V	≤600 / 6.5

## Running gear

V40 2.0 1996 to 1997

<b>Brakes -</b>		
Front (min. friction material thickness)	mm	2.0
Rear (min. friction material thickness)	mm	2.0

<b>Tyres</b>		
Saloon	Size	-
Estate / Van	Size	185/65x14:195/55x15:205/50x15
Pressure - front / rear - Saloon	bar	-
- Estate / Van	bar	2.2 / 2.0

<b>Front suspension / wheel alignment</b>		
Toe-in (+) / Toe-out (-)	mm [°]	[0°3'±6']
Camber	0°±1°	
Castor	2°12'±1°	
King pin inclination	12°41'±1°	

<b>Rear suspension / wheel alignment</b>		
Toe-in (+) / Toe-out (-)	mm [°]	[0°6'+9'-3']
Camber	-0°40'±30'	

## Torque wrench settings

V40 2.0 1996 to 1997

Cylinder head - stage 1	Nm	20 <sup>1</sup>
- stage 2	Nm	60
- stage 3	Nm	+130°
- stage 4	Nm	-
Big-end bearings	Nm	20 +90°
Main bearings	Nm	WSM
Clutch cover	Nm	25
Flywheel [driveplate]	Nm	45 +65° [45 +50°] oiled N
Front hubs	Nm	240
Rear hubs	Nm	175
Wheel nuts / bolts	Nm	110
Spark plugs	Nm	25

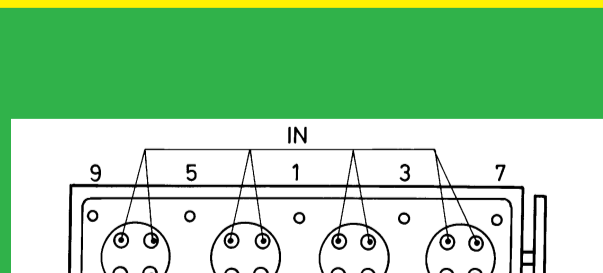
## Capacities

V40 2.0 1996 to 1997

Engine oil & filter	litres	5.3
Gearbox - 4-speed [5-speed]	litres	3.4
Automatic transmission - refill	litres	6.5
Final drive	litres	WT
Cooling system	litres	4.5 to 5.0
Fuel tank	litres	60

## Notes and Illustrations

<sup>1</sup>Bolt length: ≤158 mm



1948 cm<sup>3</sup>, 16V